(9)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: *Improvements to Cross Roads and Drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division.*

JOB CODE: 011-12-000065

Estimated Cost: Rs. 10.00 Lakhs

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

(8)

ಯಲಹಂಕ ವಲಯ

ಬೆಂಗಳೂರು – 92.

ವಿಷಯ: Improvements to Cross Roads and Drains at Singapura in Ward No. 11, Vidyaranyapura Sub Divisionನ ಕಾಮಗಾರಿ ಅಂದಾಜನ್ನು ಅನುಮೋದನೆಗೆ ಸಲ್ಲಿಸುವ ಬಗ್ಗೆ.

ಕಾಮಗಾರಿ ಸಂಕೇತ: 011–12–000065

* * * * *

ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗದ ವಾರ್ಡ್ ನಂ. 11ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿನ ಸಿಂಗಾಪುರದ ರಸ್ತೆ ಅಭಿವೃದ್ಧಿ ಮತ್ತು ಚರಂಡಿ ನಿರ್ಮಾಣ ಕಾಮಗಾರಿಗೆ 2011–12ನೇ ಸಾಲಿನ ಮಾನ್ಯ ಶಾಸಕರ ಅನುದಾನದಡಿ ರೂ. 10.00 ಲಕ್ಷಗಳ ಅನುದಾನಕ್ಕೆ ಅನುಮೋದನೆಯಾದದು. ಕಾಮಗಾರಿ ಸಂಕೇತ ಪಡೆದಿರುತ್ತದೆ.

ವಾರ್ಡ್ ವ್ಯಾಪ್ತಿಯಲ್ಲಿನ ಸಿಂಗಾಪುರದ ರಸ್ತೆಗಳು ಮಣ್ಣು ರಸ್ತೆಗಳಾಗಿದ್ದು, ರಸ್ತೆಗಳು ಹಳ್ಳ ಮತ್ತು ಗುಂಡಿಗಳಿಂದ ಕೂಡಿರುತ್ತದೆ ಹಾಗೂ ಸಾರ್ವಜನಿಕರ ಸಂಚಾರಕ್ಕೆ ತುಂಬ ತೊಂದರೆಯಾಗಿರುತ್ತದೆ. ಸದರಿ ರಸ್ತೆಯನ್ನು ಅಭಿವೃದ್ಧಿ ಪಡಿಸಲು ಚುನಾಯಿತ ಪ್ರತಿನಿಧಿಗಳು ಕೋರಿರುವುದರ ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಿ ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು 2011–12ನೇ ಸಾಲಿನ ಮಾನ್ಯ ಶಾಸಕರ ಅನುದಾನದಡಿ ಕಾಮಗಾರಿಯನ್ನು ಸೇರಿಸಿಕೊಂಡು ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಬೇಕಾಗಿರುತ್ತದೆ, ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಈ ಕೆಳಕಂಡ ಅಂಶಗಳನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ಅಂದಾಜನ್ನು ತಯಾರಿಸಲಾಗಿದೆ.

1. ಚಪ್ಪಡಿ ಚರಂಡಿಯಲ್ಲಿ ತುಂಬಿರುವ ಹೂಳನ್ನು ಹೊರಸಾಗಿಸುವುದು ಹಾಗು ಅಡಿಗಾಲುವೆ ನಿರ್ಮಿಸಲು ಮಣ್ಣು ಅಗೆತ ಕೆಲಸ ಮಾಡುವುದು.
2. ಹಾಳಾಗಿರುವ ಕಲ್ಲು ಚಪ್ಪಡಿ ಚರಂಡಿ ದುರಸ್ಥಿ ಪಡಿಸುವುದು.
3. ಸಿಗಾ 1:6 ಮಿಶ್ರಣದಿಂದ ಸೈಜು ಕಲ್ಲುಗಳಿಂದ ಅಡಿಗಾಲುವೆ ನಿರ್ಮಿಸುವುದು ಹಾಗೂ ಚಾವಣಿ ಹಾಕುವುದು.
4. ಅಡ್ಡರಸ್ತೆಗಳಿಗೆ 15 ಸೆಂ.ಮೀ ದಪ್ಪದ ವೆಟ್‌ಮಿಕ್ಸ್ ಅಳವಡಿಸುವುದು.
5. ಅಡ್ಡರಸ್ತೆಗಳ ಮೇಲ್ಮೈಯನ್ನು 25ಎಂ.ಎಂ. ದಪ್ಪದ ಎಸ್.ಡಿ.ಬಿ.ಸಿ ಯಿಂದ ಡಾಂಬರ್ ಮೆಡಿಯುವುದು ಹಾಗೂ ಇತರೆ ಅವಶ್ಯಕ ಅಂಶಗಳಿಗೆ ಅವಕಾಶ ಕಲ್ಪಿಸಿಕೊಂಡಿರುತ್ತದೆ.

ಅಂದಾಜನ್ನು 2012–13ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ದರಪಟ್ಟಿಯನ್ನು ಅಳವಡಿಸಿಕೊಂಡು ರೂ. 10.00 ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಿದ್ದು, 2011–12ನೇ ಸಾಲಿನ ಮಾನ್ಯ ಶಾಸಕರ ಅನುದಾನದಡಿ ಅನುಮೋದಿಸಿ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆ ಹಾಗೂ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿಯನ್ನು ನೀಡಲು ಕೋರಲಾಗಿದೆ.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 11 (ಕುವೆಂಪುನಗರ)
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು – 97.

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BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Name of the work: **Improvements to Cross Roads and Drains at Singapura in Ward No. 11, Vidyaranyapura Sub Division.**

Estimate Cost: 1000000.00

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2 : Earth work excavation by manua means in Hard soil involving an average horizonta throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be eveled neatly after breaking o' clods complete as per spec fications complete as per specifications MORTH chapter 3 **Page No. 150 / Item No. 19.2/ PWD SR 2012-13**	Cum							
	Culvert		1	9.00	1.80	1.00	16.20		
	Varadarajaswamya LO 2nd Stage Road A, B, C		3	40.00	4.50	0.10	54.00		
	Main Road		1	20.00	5.00	0.10	10.00		
	2nd Cross		1	75.00	5.00	0.10	37.50		
	1st Cross		1	84.00	5.00	0.10	42.00		
	4th Main		1	65.00	5.00	0.10	32.50		
							192.51	81.00	**15593.00**
	Basic Rate	75.00							
	Area Weightage @8%	6.00							
	Total	**81.00**							
2	Removing B.S. Slab Drain and stack ng **(P.28/I.5.32 PWD SR - 2012-13)**	Sqm							
			3x2	40.00		1.35	324.00		
			2	50.00		1.35	135.00		
			2	40.00		1.35	108.00		
			2	50.00		1.35	135.00		
							702.00	44.47	**31221.00**
	Basic Rate	41.18							
	Area Weightage @8%	3.29							
	Total	**44.47**							
3	Refix ng stone slabs of drains and pointing in CM (1:3) **(P.28/I.5.33 PWD SR - 2012-13)**	Sqm							30958
	Consider 70%		Qty Vide Item No.3x70%				**491.40**	63.00	**30956.00**
	Basic Rate	58.33							
	Area Weightage @ 8%	4.67							
	Total	**63.00**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete7.5 cms thick **Page No. 28 / Item No. 5.31.1/ PWD SR 2012-13**	Sqm							
	Missing Slab @ 30%		Qty Vide Item No.3x30%				**210.60**	315.36	**66415.00**
	Basic Rate	292.00							
	Area Weightage @ 8%	23.36							

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Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	315.36							
5	KSR 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using 40mm and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete la'd in layers not exceeding 15 cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **(P.12/I.4.3 PWD SR - 2012-13)**	Cum							
	Culvert		1	9.00	1.80	0.15	2.43		
							2.43	3884.76	**9440.00**
	Basic Rate	3597.00							
	Area Weightage @ 8%	287.76							
	Total	**3884.76**							
6	KSRB 5.4-4: Providing and constructing granite / trap / basalt size stone masonry in **superstructure with cement mortar 1:4**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 26 / Item No. 5.13/ PWD SR 2012-13**	Cum							
	Culvert		2	9.00	0.60	0.90	9.72		
							9.72	3713.04	**36091.00**
	Basic Rate	3438.00							
	Area Weightage @ 8%	275.04							
	Total	**3713.04**							
7	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix M15 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6/ PWD SR 2012-13**	Cum							
	Culvert		1x2	9.00	0.60	0.10	1.08		
							1.08	4409.64	**4762.00**
	Basic Rate	4083.00							
	Area Weightage @ 8%	326.64							
	Total	**4409.64**							
1	KSRB 16.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with **cement mortar 1:3,** 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **(P.120 / I.15.1 PWD SR - 2012-13)**	Sqm							
			1x2	9.00		0.90	16.20		
							16.20	71.39	**1156.00**

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Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	66.10							
	Area Weightage @ 8%	5.29							
	Total	**71.39**							
9	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls at any thickness,** including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **(P.17 / I.4.31 PWD SR - 2012-13)**	Scm							
	Bottom		1	9.00		0.60	5.40		
	Sides		2	9.00		0.23	4.14		
			2	1.80		0.23	0.83		
							10.37	244.08	**2531.00**
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							
	Total	**244.08**							
10	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lls confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **(P.13/I.4.11 PWD SR - 2012-13)**	Cum							
	Culvert		1	9.00	1.80	0.23	3.73		
							3.73	5239.08	19521.00
	Basic Rate	4851.00							
	Area Weightage @ 8%	388.08							
	Total	**5239.08**							
1	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No KBS 4.6.3 **Page No. 19/ Item No. 4.46/ PWD SR 2012-13**	Qntl							
			0.90	3.73			3.35	7323.48	24559.00
	Basic Rate	6781.00							
	Area Weightage 8%	542.48							

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Sl No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	7323.48							
12	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P.167/I.20.18) PWD SR - 2012-13.**	Cum							
	Varadarajaswamya LO 2nd Stage Road A, B, C		3	40.00	1.60	0.15	28.80		
	Main Road		1	20.00	5.00	0.15	15.00		
	2nd Cross		1	75.00	5.00	0.15	56.25		
	1st Cross		1	84.00	5.00	0.15	63.00		
	4th Main		1	65.00	5.00	0.15	48.45		
							211.50	1059.48	**224080.00**
	Basic Rate	981.00							
	Area Weightage @ 8%	78.48							
	Total	**1059.48**							
13	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.172 / I.21.1) PWDSR 2012-13**	Sqm							
	Varadarajaswamya LO 2nd Stage Road A, B, C		3	40.00	5.20		624.00		
	Main Road		1	21.00	5.30		111.30		
	2nd Cross		1	75.00	5.10		382.50		
	1st Cross		1	84.00	5.30		445.20		
	4th Main		1	70.00	5.10		357.00		17833.00
							1920.00	9.29	**17833.00**
	Basic Rate	8.60							
	Area Weightage @ 8%	0.69							
	Total	**9.29**							
	KSRRB M500-6: Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.50 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502. **Page No. 172/ Item No. 21.6/ PWD SR 2012-13**	Sqm							76209
			Qty Vide Item No.7				**1920.00**	39.64	**76101.00**
	Basic Rate	36.70							
	Area Weightage @ 8%	2.94							
	Total	**39.64**							

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Sl No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
15	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 60-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No 500.5 complete in all respects as per specifications. With 80/100 grade bitumen, No. 175/ Item No. 21.20.1/ PWD SR 2012-13								
	Main Road Varadaraja Nagar to Hudugal	Cum	1	21.00	5.30	0.025	2.78		
	2nd cross		3	40.00	4.50	0.025	13.50		
	1st cross		1	15.00	5.10	0.025	5.63		
	4th Main Road		1	24.00	5.50	0.025	4.50		
			1	70.00	5.10	0.025	5.63		
							48.00	8829.00	423792.00
	Basic Rate	8175.00							
	Area Weightage @ 8%	654.00							
	Total	8829.00							
16	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No 123)	Cum							
			Vide Item No. 1				192.51	72.71	13997.00
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							1162
	Total	72.71							
17	Miscellaneous and other Charges	LS							1952.00
								Total	1000000.00

(Rs. Ten Lakhs Only)

Technical Sanction for Rs. 10 Lakhs
Ten lakhs only
Item of P-2454 Development works for Bangalore City
Registered as EE No: 227/1413 Subject to conditions contained enclosed memo.
No: 227/1413/ Dt. 10.9.12
AE/JE
EE (BTP. Div.)

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2012-13.
3 This work included under 2011-12 MLA Grant.
4 The provisions made in this estimate are necessary and adequate.
5 Rupees Ten Lakhs Rupees only Rs. 10 Lakhs
Under P-2434 Development Works for Bangalore city
Registered as EE( ) No. ... Subject to conditions contained in closed memo EE(V) No. 520/2012-13 Dt. 10.09.2012 Estimate A/Sanction JC(Yd)/BP/520/2012-13 No. dated 10.09.2012 Rs. 10 Lakhs

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Joint Commissioner
(Yelahanka Zone)
GBMP, Bengaluru-92.
10/9/12

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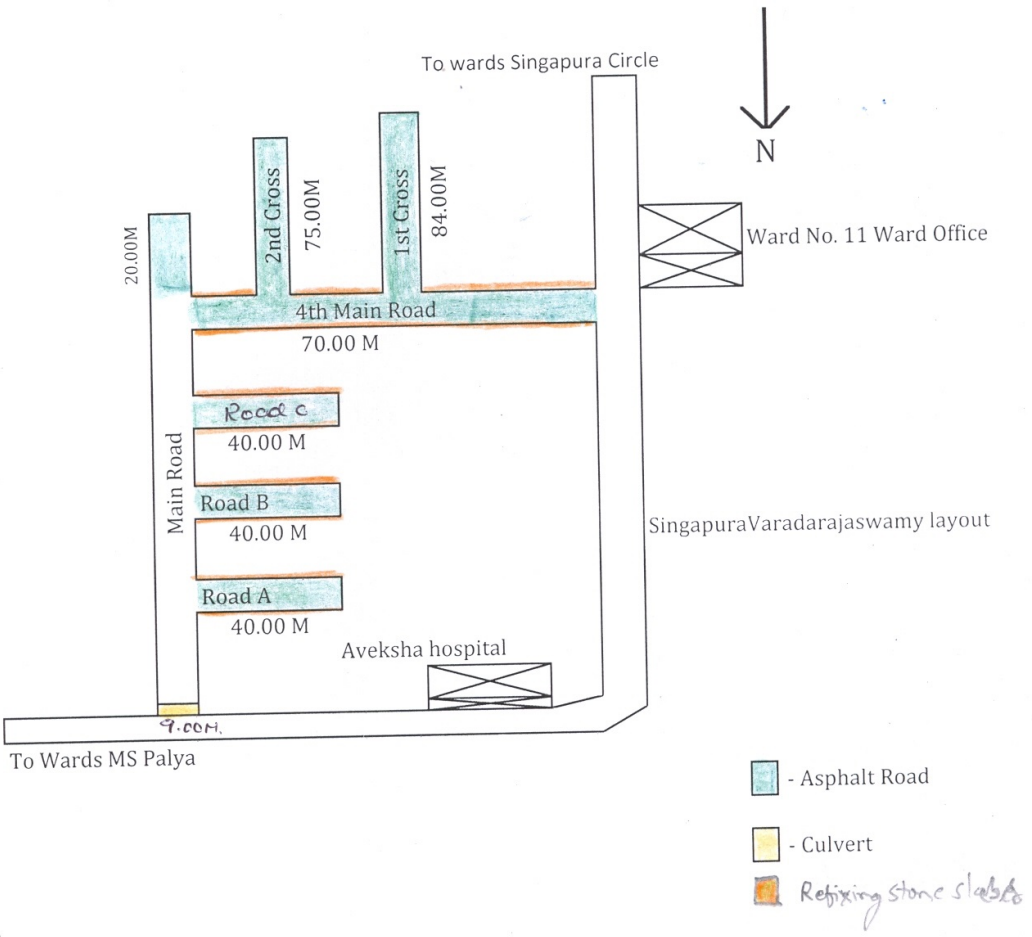
Sketch Showing the Work of Improvements to Cross Roads and Drains at Singapura in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.



Junior Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97